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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Office of Secretary Of Defense									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 6: RDT&E Management Support				R-1 ITEM NOMENCLATURE PE 0604940D8Z: Central Test and Evaluation Investment Program (CTEIP)							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	143.612	160.959	162.286	0.000	162.286	165.007	158.842	156.055	157.994	Continuing	Continuing
940: Central Test and Evaluation Investment Program (CTEIP)	143.612	160.959	162.286	0.000	162.286	165.007	158.842	156.055	157.994	Continuing	Continuing
A. Mission Description and Budget Item Justification											
<p>Since its inception in FY 1990, this program element has been used to fund the development of critically needed, high priority Test and Evaluation (T&E) capabilities for joint/multi-Service requirements. The Central Test and Evaluation Investment Program (CTEIP) uses a corporate investment approach to combine Service, Defense, and other government agencies T&E needs, maximize opportunities for joint efforts, and avoid unwarranted duplication of test capabilities. CTEIP focuses investments on projects that will have high productivity returns on investment. Projects under the CTEIP Program Element (PE) support two basic tasks: investments to improve the test capabilities base (Joint Improvement and Modernization (JIM) projects) and development of near-term solutions to test capability shortfalls in support of ongoing operational test programs (Resource Enhancement Project (REP)).</p> <p>The JIM funds critically needed T&E investments in the major functional areas of test mission command, control, communications and instrumentation; electronic warfare systems; threat and computational simulation test and evaluation; space systems T&E; weapons effects test capabilities; targets; and physical and environmental test capabilities. Examples of project subject matter include: automated data collection, processing, display, and archiving; smart munitions testing; modeling and simulation (M&S); advanced electronic combat systems; low-observable technologies and signature measurements; targets and target control; time-space-position-information; end-game measurement; testing of advanced materials application; test design; and advanced sensors and space systems. CTEIP continues as the focal point for fostering common architectures throughout the test and training communities to enhance the sharing of resources and links between test and training ranges.</p> <p>CTEIP has provided special focus to institutionalize the use of M&S as a practical test tool; to link ranges through internetting to enhance inter-range and inter-Service cooperation and resource sharing; and, to ensure development and acquisition of common instrumentation necessary for a more efficient test infrastructure.</p> <p>Analyses of alternative solutions are conducted for each investment project to validate T&E requirements, to define integrated support systems, and to determine overall cost effectiveness of the proposed test investments. The use of Department of Defense (DoD)-wide criteria for requirement validation, prioritization, and risk assessment ensures an effective test resource investment program.</p>											

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
0400: Research, Development, Test & Evaluation, Defense-Wide BA 6: RDT&E Management Support		PE 0604940D8Z: Central Test and Evaluation Investment Program (CTEIP)			
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	152.013	145.052	0.000	0.000	0.000
Current President's Budget	143.612	160.959	162.286	0.000	162.286
Total Adjustments	-8.401	15.907	162.286	0.000	162.286
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		17.220			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-5.762	0.000			
• SBIR/STTR Transfer	-2.639	0.000			
• Other Program Adjustments	0.000	-1.313	162.286	0.000	162.286
C. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Central Test and Evaluation Investment Program	143.612	160.959	162.286	0.000	162.286
FY 2009 Accomplishments:					
JIM Projects:					
- Completed concept development and initiated systems development for the Objective Helicopter Icing Spray System project to provide an enhanced capability to perform in-flight icing and rain testing for low-speed air vehicles.					
- Completed concept development and initiated system development for the Space Threat Assessment Testbed project to provide a capability to conduct subsystem and system level combined natural and man-made space environmental effects testing of critical space assets.					
- Completed the Infrared Sensor Stimulator product improvement and continued development of the Advanced Radar Environment Stimulator, under the Joint Installed Systems Test Facility Product					

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C. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Improvements project, to provide improved installed systems capabilities needed to support next generation aircraft testing. - Completed concept development for the Integrated Network Enhanced Telemetry project to develop a network-enhanced telemetry capability for T&E ranges and facilities. - Completed the Joint Gulf Range Complex Test and Training Interdependency Initiative project to explore opportunities for common infrastructure development for test and training participants at the Joint Gulf Range Complex. - Completed risk reduction for the Subminiature Flight Safety System project to provide a warhead compatible, universal, subminiature low-cost flight termination system. - Completed the Range Tactical Data Link and Relay Capability project to provide cross-range interoperability and establish a joint tactical data link test and training capability at selected ranges. - Completed system design for the Hypersonic Propulsion Test Capability project to provide a variable Mach number aerodynamic propulsion test capability at the Arnold Engineering Development Center. - Continued the Directed Energy Test and Evaluation Capability project to provide improved test and evaluation capabilities for directed energy weapons. - Continued validation of flight test procedures and unmanned aerial vehicle (UAV) operations in the U.S. National Airspace alongside manned aircraft, under the UAV Systems Operations and Validation Program. - Continued the Advanced SAM Hardware Simulator Development – Integrated Technical Evaluation Assessing Multiple Sources (ITEAMS) project to develop a detailed design of a threat radar system using available scientific and technical intelligence data. - Continued the Pacific Range Interoperability Test and Evaluation Capability project to enhance interoperability between test and training assets in the Pacific and other DoD ranges and facilities. - Continued the Joint Gulf Range Complex Upgrade project to provide upgraded range control capabilities at the Gulf Range. - Continued systems development of the Joint C4ISR Interoperability Test and Evaluation Capability project to develop a capability to test increasingly complex multi-discipline data fusion concepts.						

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C. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none">- Continued the Joint Advanced Missile Instrumentation project to develop and demonstrate time-space-position information, flight termination / safe and arm, and telemetry functions on advanced missile platforms.- Continued systems development of the Soft Impact Location Capability project to provide the necessary instrumentation, signal processing, communication, and data processing capabilities to detect and locate projectile and missile weapons within an 800m by 800m impact area.- Continued systems development for the Horizontal Fast Rise Electromagnetic Pulse (EMP) Pulser project to provide the required EMP testing environment for large aircraft under test.- Continued the Joint Mobile Infrared Countermeasures Test System project to provide infrared spectrum test instrumentation for open air ranges.- Continued risk reduction for the Common Range Integrated Instrumentation System project to develop a common range instrumentation system to address next generation range data requirements. Completed the Rapid Prototype Initiative to address near term testing requirements for the ground combat vehicles.- Continued system development for the Advanced Communications Environment –Faithful Timeslot Messaging project to adapt the current Joint Communications Simulator antenna pattern and propagation effects to provide timeslot dependent attenuation of Link 16 terminal output.- Continued the Test and Training Enabling Architecture Software Development Activity to promote integrated testing and simulation-based acquisition through the use of a logical range consisting of distributed live, virtual, and constructive elements tied together by a common architecture.- Continued the Tri-Service and CTEIP support projects.- Continued threat system simulator development efforts to improve integration, reduce potential duplication in threat and target development, and ensure that accurate, cost-effective representations of threat systems are available to support testing.- Continued system development of the Towed Airborne Plume Simulator project to provide a capability to test airborne infrared countermeasure systems in a dynamic threat environment, to include realistic clutter background.						

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C. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none">- Initiated the Range Element - Network Enterprise Technology project to provide the Combat Readiness Training Center and the 46th TW with multi-mission critical data link capabilities to support testing of net-centric aircraft and weapons.- Initiated the Gulf Range Mobile Instrumentation Capability project to provide new distributed testing capabilities.- Initiated pre-development planning activities for the Multi-Level Secure (MLS) Joint/Coalition Network Environment project to develop a standardized, DoD multi-level secure and cross-domain data management T&E network architecture.- Initiated pre-development planning activities for the Next Generation Electronic Warfare Environment Generator project to provide electronic warfare simulation capabilities for testing future Electronic Attack and Electronic Support Measures systems. <p>Resource Enhancement Project:</p> <ul style="list-style-type: none">- Completed the fabrication, range integration, and validation on the AGM-88E Anti-Radiation Missile Air Defense Array Test Tool subproject.- Completed the system integration, test, and validation on the Chemical Agent Plume Tracking Capability subproject.- Completed the development and acceptance testing on the Consolidated Enterprise Network Test and Evaluation Range subproject.- Completed the shipboard installation and at-sea verification efforts of the Digital Remote Interface Vector Equipment System.- Completed system integration and testing for the Net-Ready Operational Test and Evaluation Support subproject.- Completed the development and concept demonstration of the Infantry Automatic Rifle Test Resource Unit Fire Hit Discriminator subproject test capability.- Conducted acceptance testing for the Volumetric Influence Processor subproject.- Continued manufacturing efforts and subsystem level testing on the Submarine Launched Countermeasure Emulator subproject.						

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C. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none">- Continued the development on the Tactical End-to-End Closed Loop Simulation subproject.- Initiated the development of the Precision Target Signatures subproject to support Future Combat System of Systems force-on-force operational test events.- Initiated the development of the Net-Centric Test Agent Capability subproject to provide the capability to support the Operational Test and Evaluation of the Net-Centric Enterprise Service.- Initiated the development of the Threat Model Analysis subproject to support the Initial Operational Test and Evaluation for the F-22 program.- Initiated the development of the 25K Transportable Target Launch subproject to assess the PATRIOT Advanced Capability-3s effectiveness against near simultaneous engagements with multiple targets- Initiated the development of the Multi-Spectral Sea and Land Target Simulator subproject to provide portable Infrared and Ultraviolet open-air missile simulators to test the MV-22 and the MH60 IR and UV Missile Warning Systems. <p>FY 2010 Plans: JIM Projects:</p> <ul style="list-style-type: none">- Complete the Directed Energy Test and Evaluation Capability project to provide improved test and evaluation capabilities for directed energy weapons.- Complete systems development of the Soft Impact Location Capability project to provide the necessary instrumentation, signal processing, communication, and data processing capabilities to detect and locate projectile and missile weapons within an 800m by 800m impact area.- Complete systems development for the Horizontal Fast Rise Electromagnetic Pulse (EMP) Pulser project to provide the required EMP testing environment for large aircraft under test.- Complete system development for the Advanced Communications Environment –Faithful Timeslot Messaging project to adapt the current Joint Communications Simulator antenna pattern and propagation effects to provide timeslot dependent attenuation of Link 16 terminal output.						

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C. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none">- Complete system development of the Towed Airborne Plume Simulator project to provide a capability to test airborne infrared countermeasure systems in a dynamic threat environment, to include realistic clutter background.- Complete risk reduction and initiate systems development for the Common Range Integrated Instrumentation System project to develop a common range instrumentation system to address next generation range data requirements.- Complete the Joint Mobile Infrared Countermeasures Test System project to provide infrared spectrum test instrumentation for open air ranges.- Complete the Range Element - Network Enterprise Technology project to provide the Combat Readiness Training Center and the 46th TW with multi-mission critical data link capabilities to support testing of net-centric aircraft and weapons.- Complete the Gulf Range Mobile Instrumentation Capability project to provide new distributed testing capabilities.- Complete validation of flight test procedures and unmanned aerial vehicle (UAV) operations in the U.S. National Airspace alongside manned aircraft, under the UAV Systems Operations and Validation Program.- Complete the Advanced SAM Hardware Simulator Development – Integrated Technical Evaluation Assessing Multiple Sources (ITEAMS) project to develop a detailed design of a threat radar system using available scientific and technical intelligence data.- Complete the Pacific Range Interoperability Test and Evaluation Capability project to enhance interoperability between test and training assets in the Pacific and other DoD ranges and facilities.- Complete the Joint Gulf Range Complex Upgrade project to provide upgraded range control capabilities at the Gulf Range.- Continue systems development of the Joint C4ISR Interoperability Test and Evaluation Capability project to develop a capability to test increasingly complex multi-discipline data fusion concepts.- Continue system development for the Space Threat Assessment Testbed project to provide a capability to conduct subsystem and system level combined natural and man-made space environmental effects testing of critical space assets.						

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C. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none">- Continue systems development for the Objective Helicopter Icing Spray System project to provide an enhanced capability to perform in-flight icing and rain testing for low-speed air vehicles.- Continue the Joint Advanced Missile Instrumentation project to develop and demonstrate time-space-position information, flight termination / safe and arm, and telemetry functions on advanced missile platforms.- Continue development of the Advanced Radar Environment Stimulator, under the Joint Installed Systems Test Facility Product Improvements project, to provide improved installed systems capabilities needed to support next generation aircraft testing.- Continue the Test and Training Enabling Architecture Software Development Activity to promote integrated testing and simulation-based acquisition through the use of a logical range consisting of distributed live, virtual, and constructive elements tied together by a common architecture.- Continue the Tri-Service and CTEIP support projects.- Continue threat system simulator development efforts to improve integration, reduce potential duplication in threat and target development, and ensure that accurate, cost-effective representations of threat systems are available to support testing.- Continue the Multi-Level Secure (MLS) Joint/Coalition Network Environment project to develop a standardized, DoD multi-level secure and cross-domain data management T&E network architecture.- Continue the Next Generation Electronic Warfare Environment Generator project to provide electronic warfare simulation capabilities for testing future Electronic Attack and Electronic Support Measures systems.- Initiate systems development for the Integrated Network Enhanced Telemetry project to develop a network-enhanced telemetry capability for T&E ranges and facilities.- Initiate system development for the Subminiature Flight Safety System project to provide a warhead compatible, universal, subminiature low-cost flight termination system.- Initiate development of a Joint Urban Test Capability to provide capabilities for testing in a realistic urban environment.- Initiate the Joint Unmanned Aerial Systems (UAS) Mission Environment project to develop a capability for testing UAS in realistic system of systems environments.						

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C. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none">- Initiate the Joint Distributed Infrared Countermeasures (IRCM) Ground Test System project to provide an end-to-end ground test system enabling complete testing of IRCM systems.- Initiate development of new mobile instrumentation capabilities to support end-to-end testing of advanced infrared countermeasure systems and missile warning systems. <p>Resource Enhancement Project:</p> <ul style="list-style-type: none">- Complete validation testing for the Precision Target Signatures subproject.- Complete project demonstration for the Net-Centric Test Agent Capability subproject.- Complete system fabrication and acceptance testing of the Infantry Automatic Rifle Test Resource Unit Fire Hit Discriminator subproject test capability.- Complete verification and validation efforts for the Submarine Launched Countermeasure Emulator subproject.- Complete development of the Threat Model Assessment Program subproject.- Complete the end-to-end closed loop verification, validation and accreditation for the Tactical End-to-End Closed Loop Simulation subproject.- Complete systems requirements analysis and initiate the design of the Multi-Spectral Sea and Land Target Simulator subproject.- Complete requirements analysis and initiate the hardware development efforts for the 25K Threat Target Launcher subproject.- Initiate development of the Battle Command Network Integration and Simulation subproject to provide the capability to test the interoperability and network connectivity transmission capabilities of the Joint Tactical Radio System Ground Mobile Radio.- Initiate the development of the Operational Command and Control Instrumentation subproject to provide the capability to assess the National Capital Region Integrated Air Defense System's ability to effectively facilitate positive command and control over ground based air defense systems. <p>FY 2011 Base Plans: JIM Projects:</p>						

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C. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none">- Complete development of the Advanced Radar Environment Stimulator, under the Joint Installed Systems Test Facility Product Improvements project, to provide improved installed systems capabilities needed to support next generation aircraft testing.- Complete the Joint Advanced Missile Instrumentation project to develop and demonstrate time-space-position information, flight termination / safe and arm, and telemetry functions on advanced missile platforms.- Continue systems development of the Joint C4ISR Interoperability Test and Evaluation Capability project to develop a capability to test increasingly complex multi-discipline data fusion concepts.- Continue systems development for the Objective Helicopter Icing Spray System project to provide an enhanced capability to perform in-flight icing and rain testing for low-speed air vehicles.- Continue system development for the Space Threat Assessment Testbed project to provide a capability to conduct subsystem and system level combined natural and man-made space environmental effects testing of critical space assets.- Continue systems development for the Common Range Integrated Instrumentation System project to develop a common range instrumentation system to address next generation range data requirements.- Continue systems development for the Integrated Network Enhanced Telemetry project to develop a network-enhanced telemetry capability for T&E ranges and facilities.- Continue the Test and Training Enabling Architecture Software Development Activity to promote integrated testing and simulation-based acquisition through the use of a logical range consisting of distributed live, virtual, and constructive elements tied together by a common architecture.- Continue the Tri-Service and CTEIP support projects.- Continue threat system simulator development efforts to improve integration, reduce potential duplication in threat and target development, and ensure that accurate, cost-effective representations of threat systems are available to support testing.- Continue system development for the Subminiature Flight Safety System project to provide a warhead compatible, universal, subminiature low-cost flight termination system.- Continue development of a Joint Urban Test Capability to provide capabilities for testing in a realistic urban environment.						

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C. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none">- Continue the Multi-Level Secure (MLS) Joint/Coalition Network Environment project to develop a standardized, DoD multi-level secure and cross-domain data management T&E network architecture.- Continue the Joint Unmanned Aerial Systems (UAS) Mission Environment project to develop a capability for testing UAS in realistic system of systems environments.- Continue the Joint Distributed Infrared Countermeasures (IRCM) Ground Test System project to provide an end-to-end ground test system enabling complete testing of IRCM systems.- Continue the Next Generation Electronic Warfare Environment Generator project to provide electronic warfare simulation capabilities for testing future Electronic Attack and Electronic Support Measures systems.- Continue development of new mobile instrumentation capabilities to support end-to-end testing of advanced infrared countermeasure systems and missile warning systems.- Initiate the Advanced Diagnostics for Augmentors and Combustors project to transition advanced combustion diagnostics to propulsion ground test facilities and to facilitate improvement and validation of combustion modeling and simulation tools with resulting data.- Initiate the Polarization Projection Capability for Space Sensor Simulation Testing project to develop a baseline capability for realistic testing of polarimetric sensors in a controlled space simulation environment. <p>Resource Enhancement Project:</p> <ul style="list-style-type: none">- Complete integration and testing for the Battle Command Network Integration and Simulation subproject.- Complete the validation testing for the 25K Transportable Target Launcher subproject.- Complete system fabrication and conduct acceptance tests for the Multi-Spectral Sea and Land Target Simulator subproject.- Complete the validation, verification and accreditation for the Operational Command and Control Instrumentation System subproject.- Complete Verification and Validation for the Submarine Launched Countermeasure Emulator subproject.						

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<u>C. Accomplishments/Planned Program (\$ in Millions)</u>						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none"> - Initiate development of instrumented facilities to evaluate our next generation of sensors, weapons, platforms, and C4ISR systems in a realistic urban environment. - Initiate development of hardware simulators to test missile warning systems of new generation electronic warfare (EW) suites in a dynamic environment. - Initiate the development of non-intrusive instrumentation to address near term OT capability shortfalls to evaluate advanced sensor system performance in harsh environments. 						
Accomplishments/Planned Programs Subtotals		143.612	160.959	162.286	0.000	162.286
<u>D. Other Program Funding Summary (\$ in Millions)</u> N/A						
<u>E. Acquisition Strategy</u> N/A						
<u>F. Performance Metrics</u> Percentage of CTEIP projects that were developed and delivered to the DoD test community over the past five years.						

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